

Arrangement for optical coupling of a monitor diode to a laser diode

Patent Number: EP0790678
Publication date: 1997-08-20
Inventor(s): HEHMANN JOERG (DE)
Applicant(s): ALSTHOM CGE ALCATEL (FR)
Requested Patent: ☐ EP0790678, A3
Application Number: EP19970400347 19970217
Priority Number(s): DE19961005726 19960216
IPC Classification: H01S3/025; G02B6/42
EC Classification: G02B6/42C3R, H01S5/022
Equivalents: ☐ DE19605726, ☐ JP9312407
Cited patent(s): US4293826; EP0465230; GB2275566; DE4313492

Abstract

The apparatus couples a monitor diode and a laser diode (6) mounted in a plane in series on a carrier plate and isolated from each other by a groove (7). Inclined, mirrored ends cause rearward light emitted by the laser diode to be reflected from the groove end to the monitor diode. A spherical lens (10) mounted in the groove behind the laser diode collects the emitted rearward light and focusses it onto the mirrored groove end (9). The optical axis of the spherical lens lies beneath the optical axis of the emitted rearward light.

Data supplied from the esp@cenet database - I2